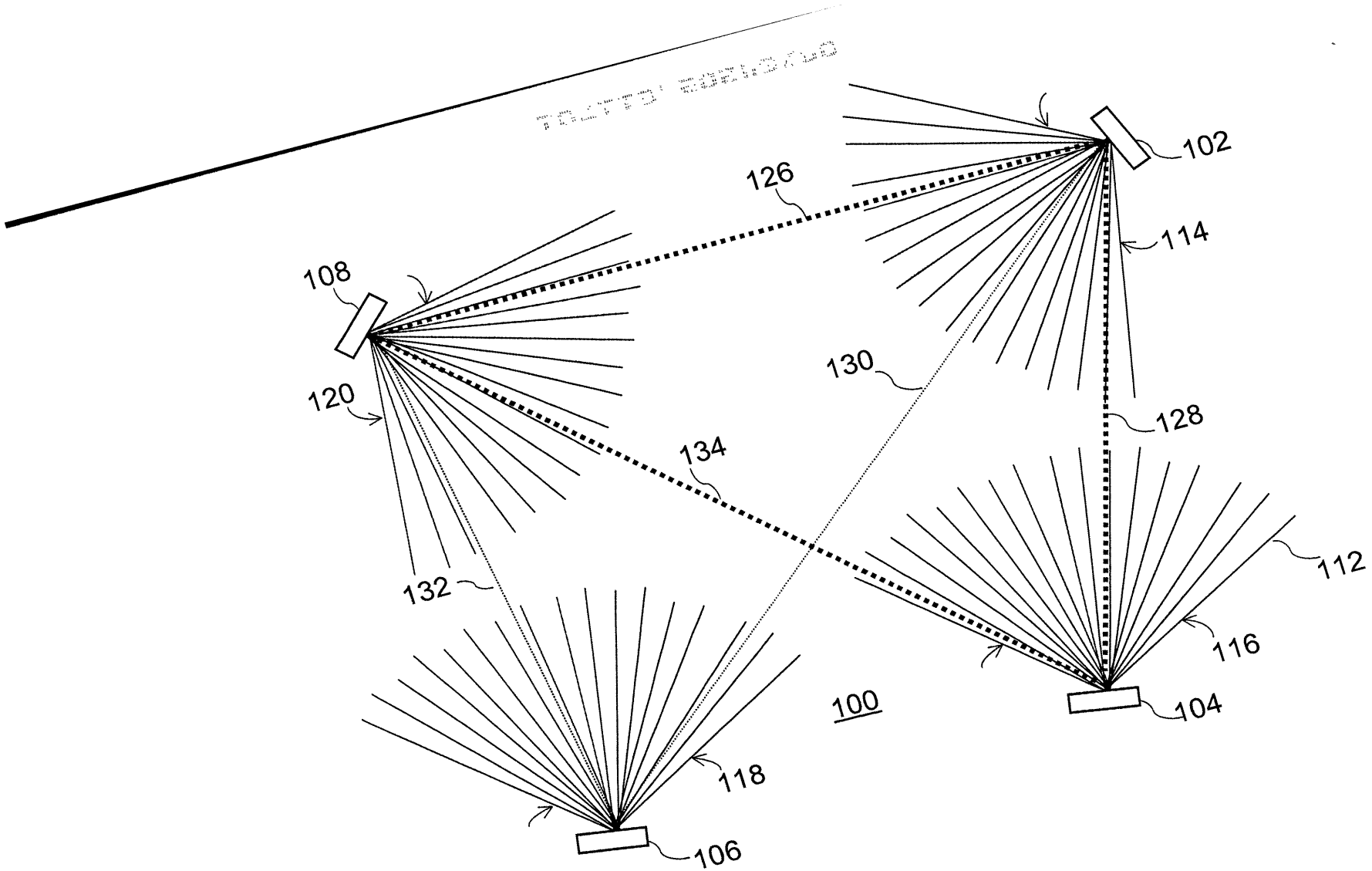
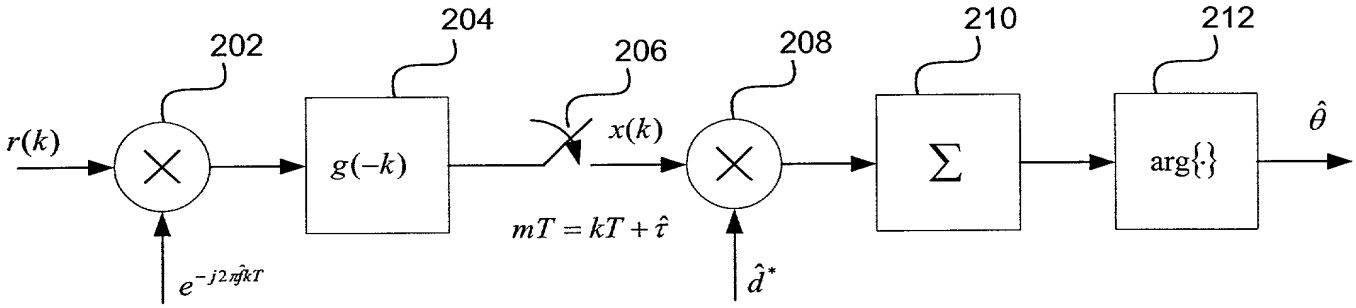
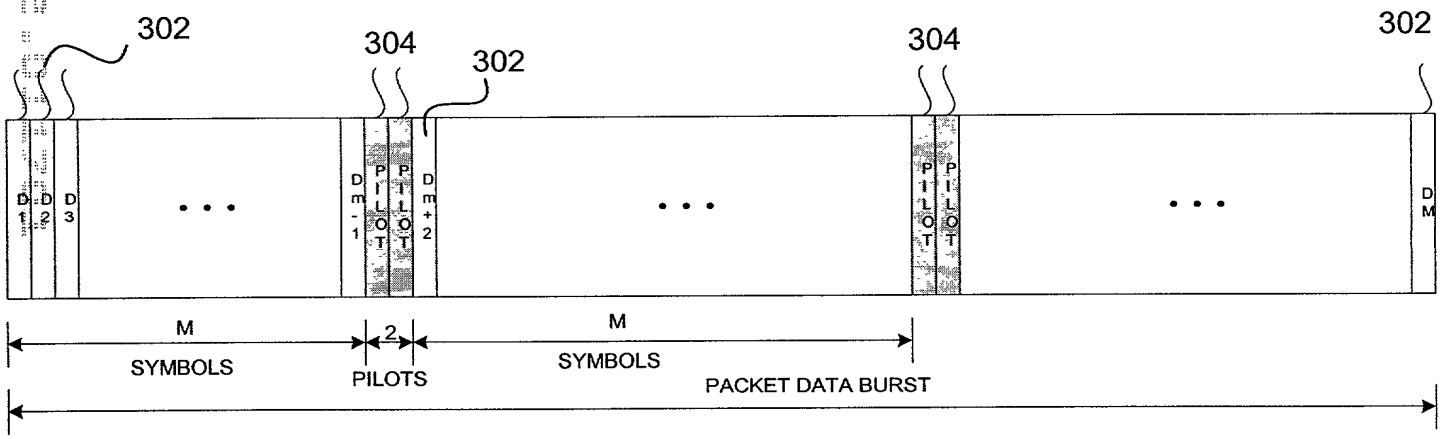


FIG. 1



200

FIG. 2 (PRIOR ART)



300

FIG. 3

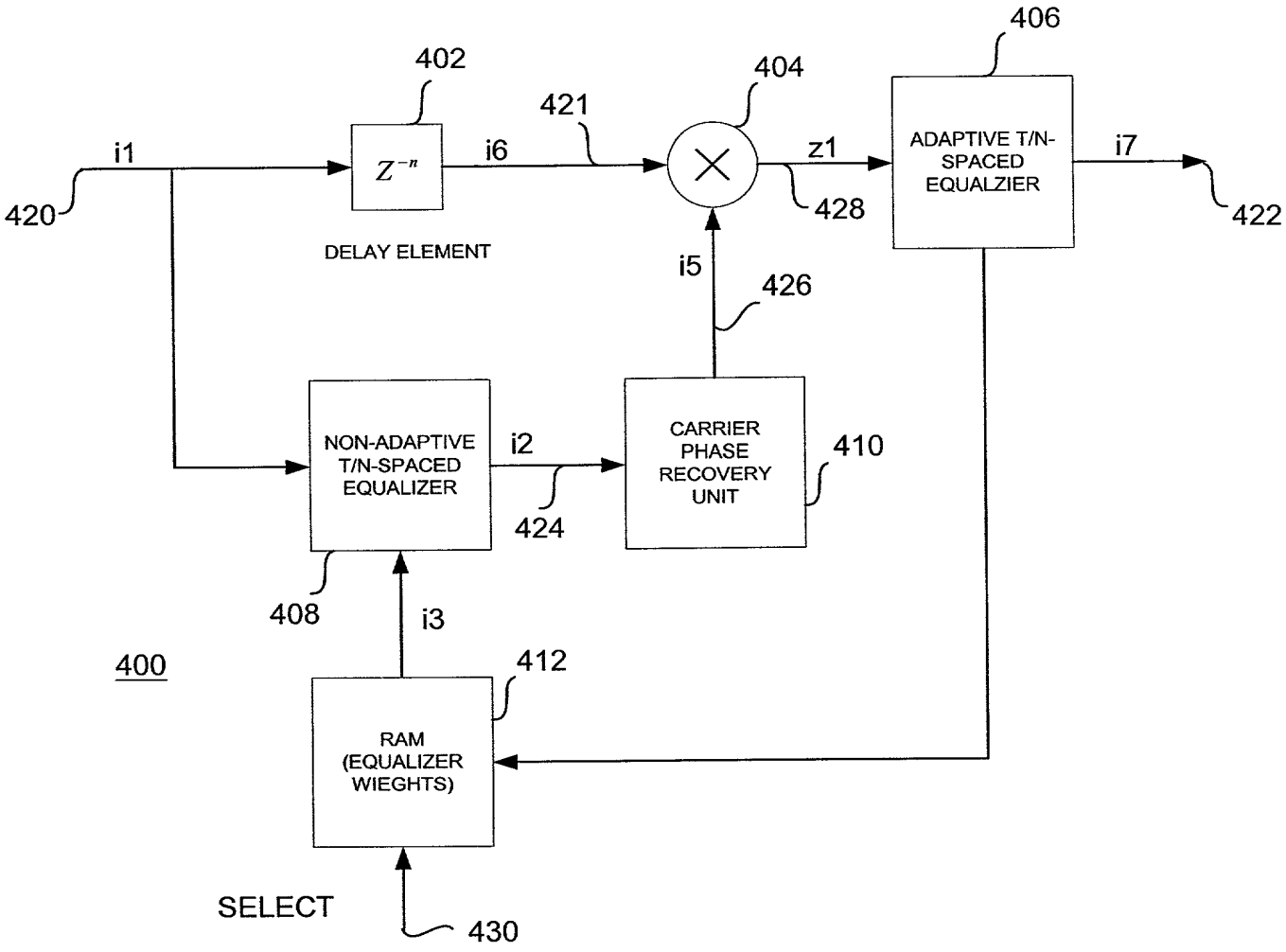

406
402
404
421
i1
Z^{-n}
i6
z1
ADAPTIVE T/N-SPACED EQUALZIER
i7
420
428
422
DELAY ELEMENT
i5
426
NON-ADAPTIVE T/N-SPACED EQUALIZER
i2
CARRIER PHASE RECOVERY UNIT
410
424
408
i3
400
412
RAM (EQUALIZER WIEGHTS)
SELECT
430

FIG. 4

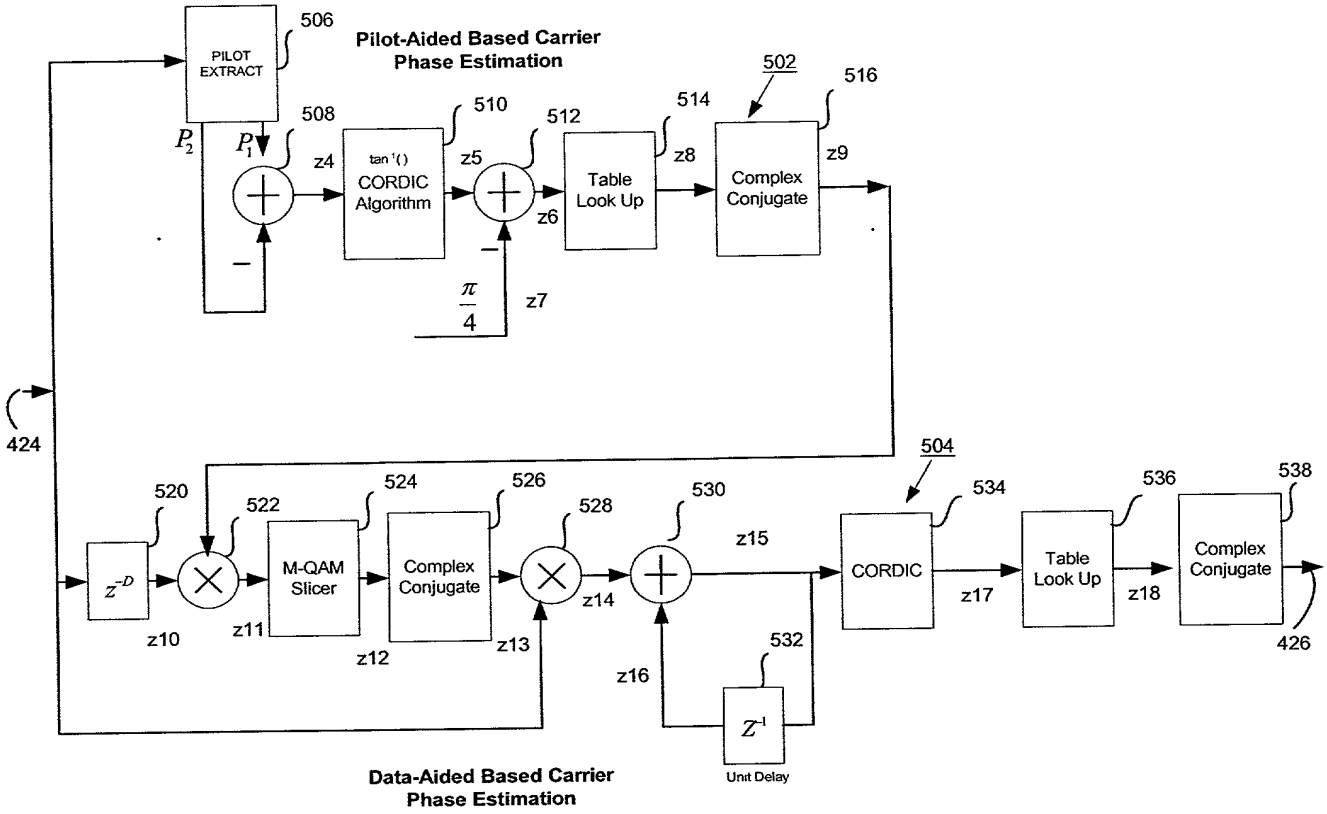

PILOT EXTRACT
506
Pilot-Aided Based Carrier Phase Estimation
502
516
508
510
512
514
P_2
P_1
z4
tan⁻¹() CORDIC Algorithm
z5
z6
Table Look Up
z8
Complex Conjugate
z9
$\frac{\pi}{4}$
z7
424
504
520
522
524
526
528
530
534
536
538
z^{-D}
M-QAM Slicer
Complex Conjugate
z15
CORDIC
Table Look Up
Complex Conjugate
z10
z11
z12
z13
z14
z16
z17
z18
426
532
Z^{-1}
Unit Delay
Data-Aided Based Carrier Phase Estimation

FIG. 5

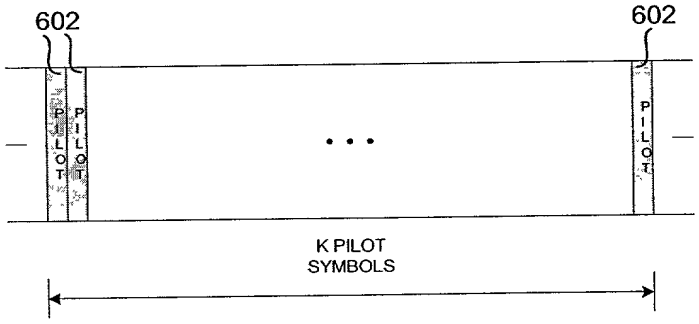
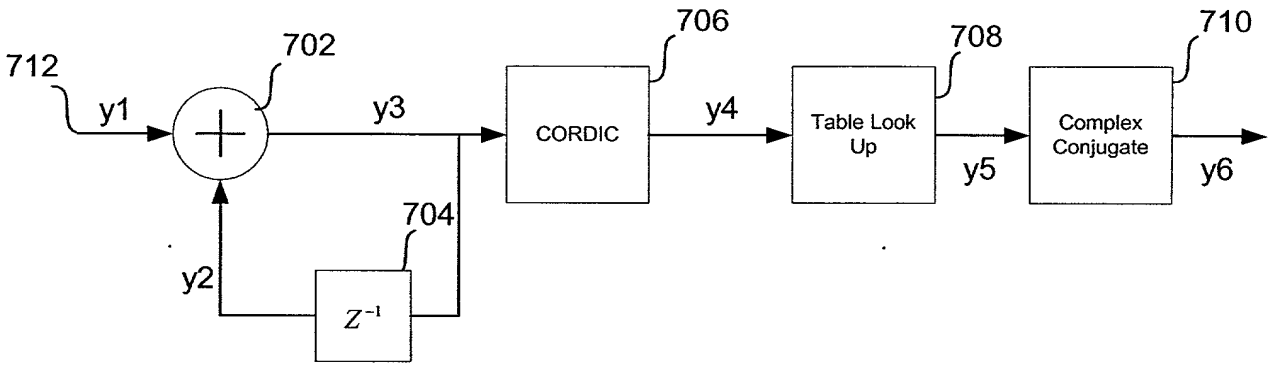

602
602
PILOT
PILOT
PILOT
K PILOT SYMBOLS
600

FIG. 6


712
y1
702
y3
706
CORDIC
y4
708
Table Look Up
y5
710
Complex Conjugate
y6
704
y2
Z^{-1}

700

FIG. 7